

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1067980

Luminaire Tested: **NAV-SA4D-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067980
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4D-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 4xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19482 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 218.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



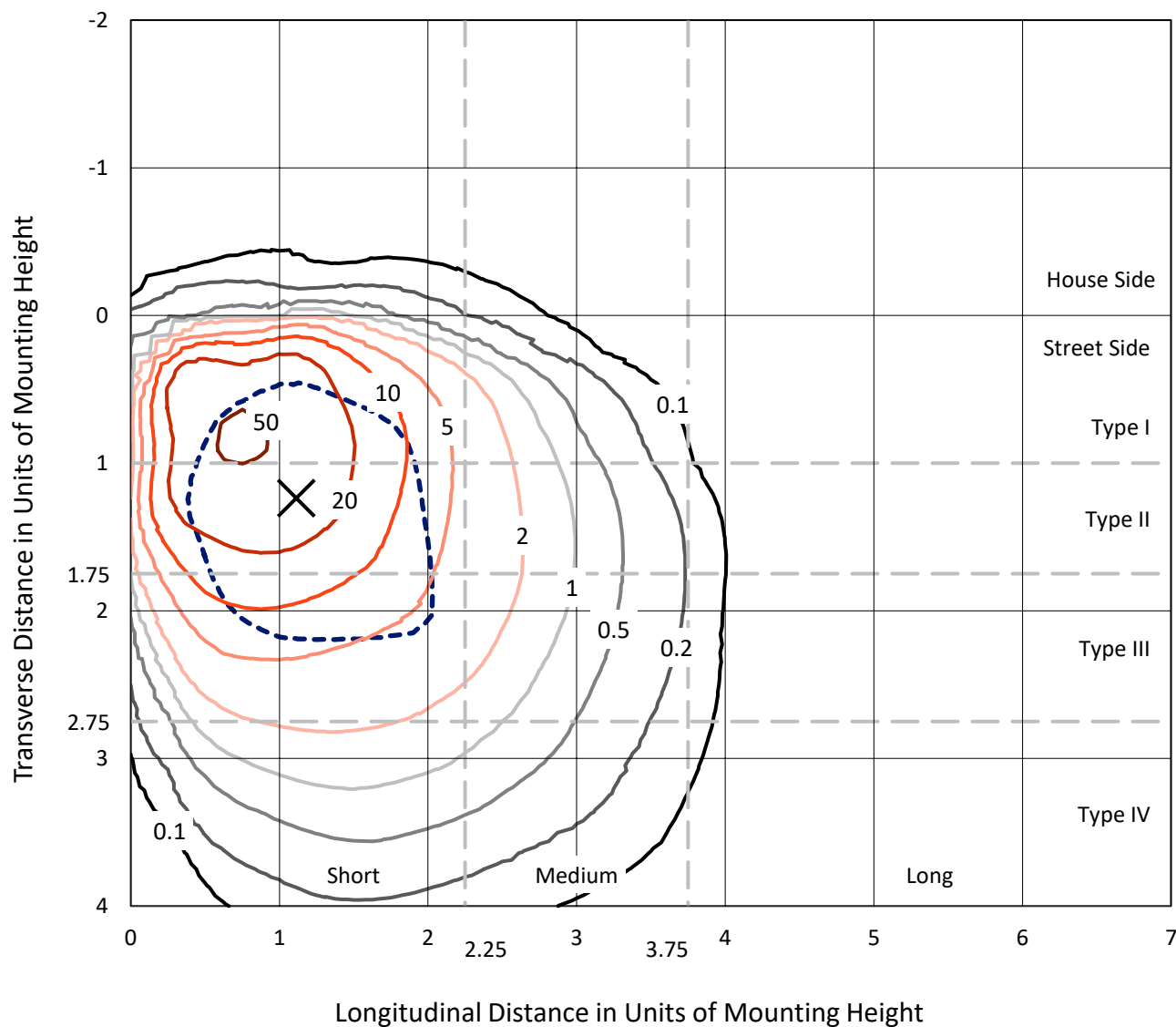
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

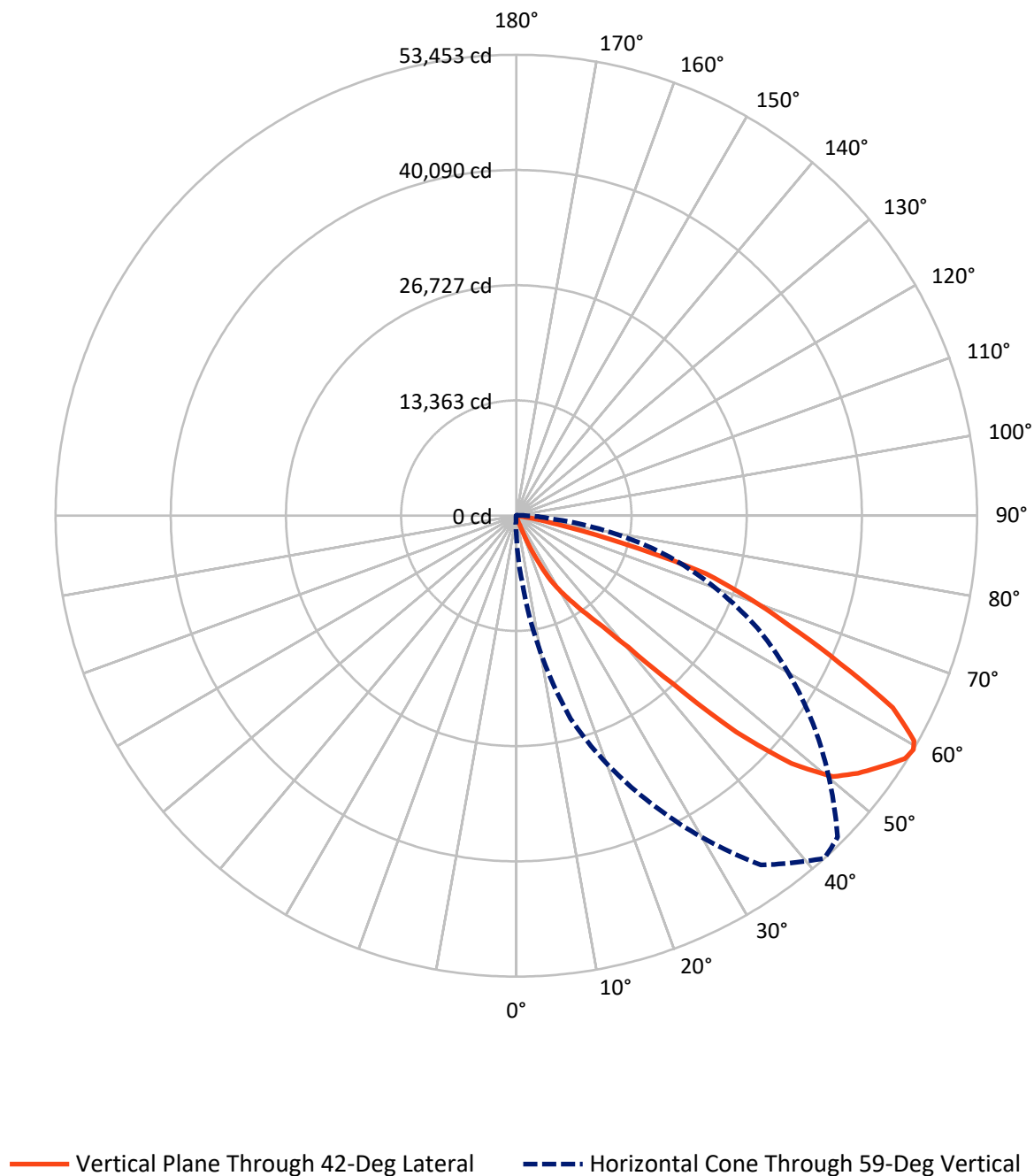


Based on 15 foot mounting height. Maximum calculated value = 57.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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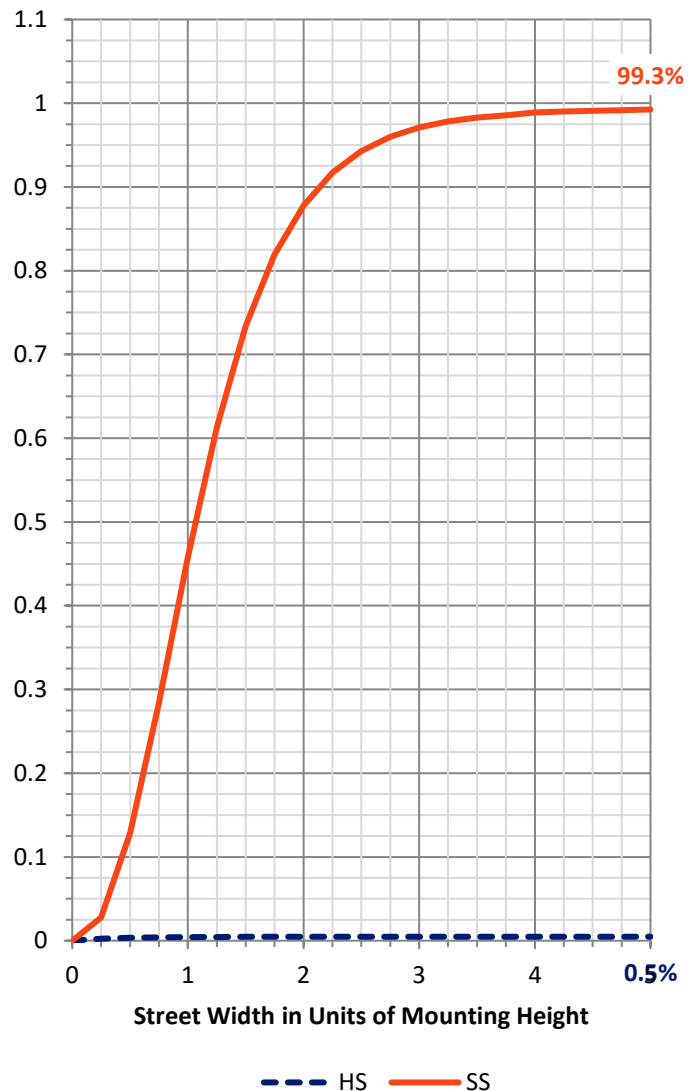
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	93.9	0.0	93.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	19388.1	0.0	19388.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	19482.0	0.0	19482.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.0
10°-20°	28.4	0.1
20°-30°	363.4	1.9
30°-40°	1225.2	6.3
40°-50°	3700.5	19.0
50°-60°	6532.3	33.5
60°-70°	5751.8	29.5
70°-80°	1830.8	9.4
80°-90°	43.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19482.0	100.0
0°-180°	19482.0	100.0



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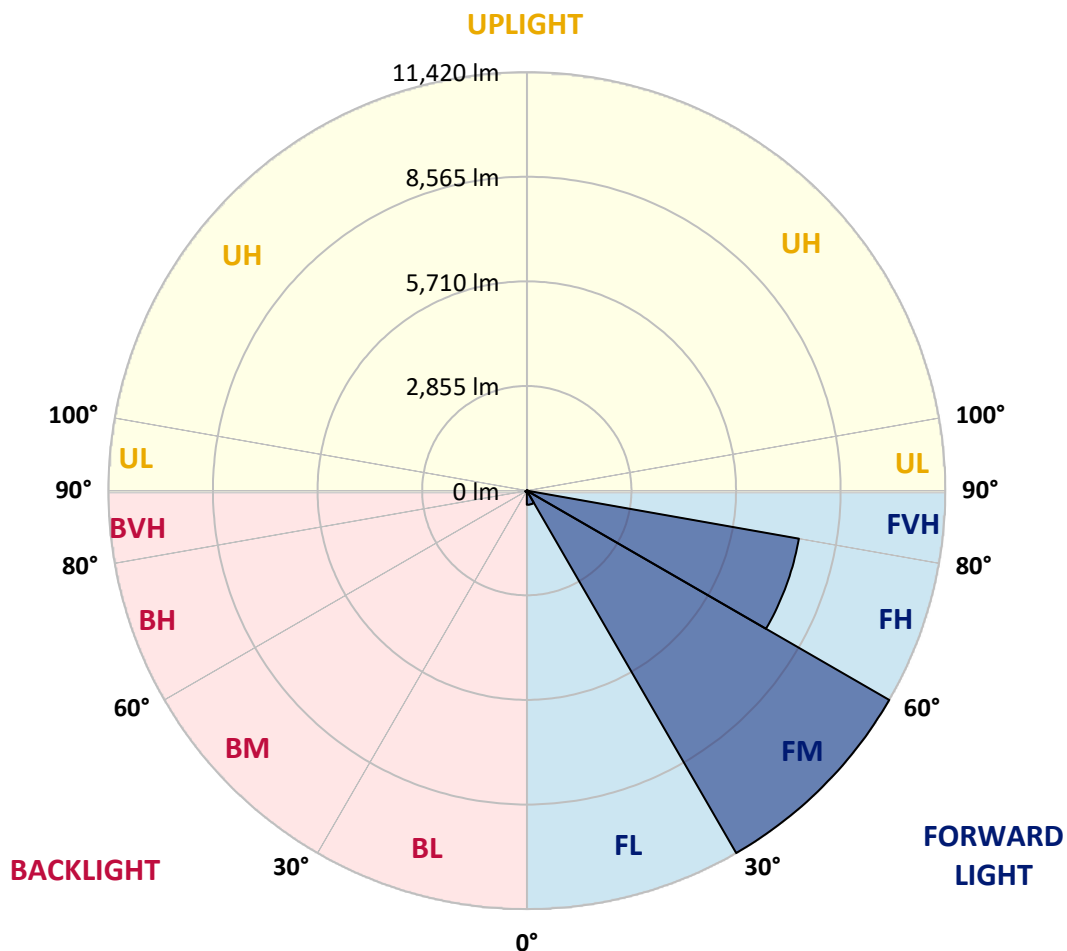
CATALOG NUMBER: NAV-SA4D-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.0	2.0			
FM	(30°-60°)	11419.7	58.6			
FH	(60°-80°)	7539.7	38.7			G4/12000
FVH	(80°-90°)	41.7	0.2			G1/100
BL	(0°-30°)	10.5	0.1	B0/110		
BM	(30°-60°)	38.3	0.2	B0/220		
BH	(60°-80°)	42.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	85.5	85.5	79.4	73.3	67.2	61.1	61.1	61.1	55.0	55.0	48.9
5°	97.7	97.7	91.6	85.5	85.5	79.4	79.4	73.3	67.2	67.2	61.1
7.5°	103.8	103.8	103.8	103.8	97.7	97.7	97.7	91.6	85.5	79.4	73.3
10°	109.9	116.1	122.2	122.2	122.2	122.2	122.2	116.1	103.8	97.7	85.5
12.5°	122.2	128.3	140.5	152.7	152.7	158.8	152.7	146.6	134.4	116.1	97.7
15°	134.4	146.6	164.9	189.4	213.8	219.9	219.9	201.6	177.1	140.5	116.1
17.5°	152.7	171.0	219.9	299.3	384.8	452.0	452.0	403.1	281.0	183.2	134.4
20°	164.9	201.6	354.3	720.8	1099.5	1380.5	1325.5	1172.8	629.2	287.1	146.6
22.5°	183.2	256.5	751.3	1893.6	2932.0	3445.1	3322.9	2522.7	1411.0	513.1	177.1
25°	207.7	372.6	1490.4	3548.9	5448.6	6004.4	5925.0	4709.5	2571.6	861.3	226.0
27.5°	256.5	549.7	2388.3	5381.4	8038.5	8514.9	8484.4	6896.2	4110.9	1386.6	293.2
30°	323.7	800.2	3542.8	7311.6	9754.9	10237.4	10084.7	8496.6	5546.3	2119.6	378.7
32.5°	403.1	1117.8	4587.3	8734.8	11336.9	11972.2	11788.9	9889.3	6700.8	2742.6	562.0
35°	525.3	1429.3	5619.6	9993.1	13163.3	13969.6	13664.2	11324.7	7696.4	3445.1	678.0
37.5°	586.4	1612.6	6566.4	11361.4	15215.7	16315.2	16083.1	13138.9	8710.4	4343.0	830.7
40°	592.5	1832.5	7549.8	13145.0	18117.1	20077.9	19662.5	16254.1	10597.8	5497.4	1068.9
42.5°	610.8	2162.3	8826.4	16186.9	23816.1	26632.0	26161.7	21983.6	14879.7	7812.5	1514.8
45°	696.3	2785.4	11428.6	21873.7	31640.8	35770.0	35226.3	29967.1	20859.7	12167.7	2583.8
47.5°	995.6	4190.3	15991.4	28012.5	39642.6	42935.0	42800.6	36258.6	26277.7	16632.8	4379.6
50°	1600.4	6432.0	21183.5	33174.0	44736.9	47565.0	47229.1	38885.2	29368.5	19680.8	5613.5
52.5°	2137.9	8576.0	24445.3	35073.6	46257.9	49629.6	49220.4	39844.2	30180.9	20578.7	5955.6
55°	2272.3	9351.7	25416.5	35660.0	47265.7	51376.6	50784.1	40485.6	30284.8	19937.4	5387.5
57.5°	2205.1	8618.8	24787.3	36234.2	48670.6	53172.4	52384.5	41737.8	30632.9	18850.1	4483.5
59°	2089.0	7714.7	24396.4	36692.3	49446.4	53453.4	52714.3	42012.6	30865.1	18355.3	3933.7
60°	1954.6	7103.9	24091.0	36991.6	49397.5	53013.6	52250.1	41884.4	30956.7	17927.8	3671.1
62.5°	1508.7	5668.5	23651.2	36777.8	46312.8	49000.5	48566.8	38744.7	29612.9	16559.5	2895.3
65°	1172.8	4336.9	22038.6	32801.4	39410.5	41218.6	41084.2	32807.5	24921.7	14275.0	2089.0
67.5°	928.5	3164.1	18636.3	26564.8	31708.0	34279.6	34181.8	26632.0	18917.3	10909.4	1502.6
70°	757.4	2253.9	12778.5	20029.0	25361.5	28598.9	28458.4	21433.9	14018.5	6920.7	1093.4
72.5°	641.4	1441.5	7751.4	15099.6	21165.1	23015.9	22606.7	17292.5	10194.7	3768.8	867.4
75°	543.6	885.7	3842.1	9412.8	12607.5	12595.2	12186.0	9156.3	5473.0	1844.7	690.2
77.5°	439.8	623.0	1508.7	2583.8	3976.5	4923.3	4843.9	3243.5	1637.0	537.5	427.6
80°	287.1	293.2	403.1	708.6	1093.4	1209.4	1374.4	989.5	476.4	256.5	177.1
82.5°	128.3	140.5	183.2	232.1	232.1	213.8	189.4	140.5	103.8	85.5	42.8
85°	30.5	42.8	30.5	36.6	30.5	24.4	24.4	12.2	0.0	0.0	0.0
87.5°	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	48.9	48.9	48.9	42.8	42.8	42.8	36.6	36.6	36.6	30.5	30.5
5°	61.1	55.0	48.9	48.9	42.8	42.8	36.6	30.5	30.5	30.5	24.4
7.5°	67.2	61.1	55.0	48.9	42.8	36.6	36.6	30.5	24.4	24.4	24.4
10°	79.4	73.3	61.1	48.9	42.8	36.6	30.5	30.5	24.4	18.3	18.3
12.5°	91.6	79.4	67.2	55.0	42.8	36.6	30.5	30.5	24.4	18.3	12.2
15°	103.8	91.6	73.3	55.0	42.8	36.6	30.5	30.5	18.3	12.2	6.1
17.5°	116.1	97.7	73.3	61.1	42.8	36.6	30.5	24.4	12.2	6.1	0.0
20°	122.2	103.8	79.4	61.1	42.8	36.6	30.5	18.3	6.1	0.0	0.0
22.5°	134.4	116.1	85.5	61.1	42.8	30.5	18.3	6.1	0.0	0.0	0.0
25°	158.8	122.2	85.5	61.1	42.8	30.5	12.2	0.0	0.0	0.0	0.0
27.5°	177.1	134.4	85.5	61.1	42.8	24.4	6.1	0.0	0.0	0.0	0.0
30°	207.7	146.6	91.6	61.1	42.8	18.3	6.1	0.0	0.0	0.0	0.0
32.5°	256.5	158.8	91.6	61.1	36.6	18.3	0.0	0.0	0.0	0.0	0.0
35°	311.5	183.2	91.6	61.1	36.6	18.3	0.0	0.0	0.0	0.0	0.0
37.5°	317.6	195.5	91.6	61.1	36.6	12.2	0.0	0.0	0.0	0.0	0.0
40°	329.8	183.2	97.7	61.1	36.6	12.2	0.0	0.0	0.0	0.0	0.0
42.5°	378.7	171.0	103.8	61.1	36.6	12.2	0.0	0.0	0.0	0.0	0.0
45°	562.0	177.1	103.8	67.2	36.6	18.3	0.0	0.0	0.0	0.0	0.0
47.5°	977.3	183.2	97.7	67.2	36.6	18.3	0.0	0.0	0.0	0.0	0.0
50°	1252.2	213.8	97.7	73.3	42.8	12.2	0.0	0.0	0.0	0.0	0.0
52.5°	1331.6	250.4	97.7	79.4	55.0	6.1	0.0	0.0	0.0	0.0	0.0
55°	1295.0	293.2	103.8	85.5	67.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1197.2	317.6	109.9	91.6	73.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	1093.4	336.0	128.3	97.7	73.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1007.9	354.3	134.4	103.8	73.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	812.4	378.7	146.6	122.2	61.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	708.6	397.0	152.7	134.4	55.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	647.5	409.3	164.9	140.5	48.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	598.6	403.1	177.1	134.4	42.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	543.6	384.8	213.8	122.2	36.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	488.7	348.2	232.1	109.9	24.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	354.3	293.2	213.8	97.7	12.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.7	158.8	152.7	73.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.5	36.6	30.5	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	30.5	30.5	30.5	30.5	36.6	36.6	48.9	61.1	73.3	79.4	79.4
5°	24.4	24.4	24.4	24.4	24.4	30.5	36.6	48.9	67.2	73.3	73.3
7.5°	18.3	18.3	18.3	18.3	18.3	18.3	30.5	42.8	61.1	67.2	73.3
10°	18.3	12.2	12.2	6.1	6.1	12.2	18.3	36.6	55.0	61.1	67.2
12.5°	12.2	6.1	6.1	0.0	0.0	6.1	12.2	30.5	48.9	55.0	61.1
15°	6.1	0.0	0.0	0.0	0.0	0.0	6.1	24.4	42.8	48.9	61.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	36.6	48.9	55.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	30.5	42.8	48.9
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	24.4	36.6	42.8
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	24.4	30.5
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	18.3	24.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	18.3	24.4
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2	18.3
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2	18.3
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2	12.2
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
2.5°	85.5	85.5	79.4	73.3	73.3	73.3	79.4	85.5	85.5	85.5
5°	79.4	79.4	73.3	73.3	73.3	73.3	79.4	91.6	97.7	97.7
7.5°	79.4	79.4	73.3	73.3	73.3	73.3	79.4	91.6	97.7	103.8
10°	73.3	73.3	73.3	73.3	67.2	73.3	79.4	91.6	109.9	109.9
12.5°	73.3	73.3	73.3	73.3	67.2	73.3	85.5	97.7	116.1	122.2
15°	73.3	73.3	73.3	67.2	67.2	73.3	85.5	103.8	122.2	134.4
17.5°	67.2	73.3	73.3	67.2	67.2	73.3	85.5	103.8	134.4	152.7
20°	61.1	67.2	73.3	67.2	67.2	67.2	85.5	103.8	140.5	164.9
22.5°	55.0	61.1	67.2	67.2	61.1	67.2	85.5	109.9	152.7	183.2
25°	48.9	55.0	55.0	61.1	61.1	67.2	85.5	109.9	158.8	207.7
27.5°	36.6	42.8	48.9	55.0	55.0	67.2	85.5	116.1	171.0	256.5
30°	30.5	36.6	42.8	48.9	55.0	67.2	85.5	116.1	183.2	323.7
32.5°	30.5	36.6	42.8	48.9	55.0	61.1	85.5	122.2	201.6	403.1
35°	24.4	30.5	36.6	48.9	48.9	61.1	85.5	122.2	219.9	525.3
37.5°	24.4	30.5	36.6	48.9	48.9	61.1	85.5	122.2	268.8	586.4
40°	18.3	24.4	30.5	48.9	48.9	61.1	91.6	128.3	274.9	592.5
42.5°	18.3	24.4	30.5	42.8	48.9	61.1	91.6	128.3	256.5	610.8
45°	18.3	24.4	30.5	48.9	55.0	67.2	91.6	134.4	250.4	696.3
47.5°	18.3	24.4	30.5	48.9	61.1	67.2	91.6	134.4	256.5	995.6
50°	18.3	24.4	30.5	48.9	67.2	67.2	91.6	134.4	281.0	1600.4
52.5°	12.2	18.3	24.4	42.8	55.0	73.3	97.7	128.3	299.3	2137.9
55°	12.2	12.2	18.3	36.6	48.9	79.4	103.8	128.3	348.2	2272.3
57.5°	12.2	12.2	18.3	30.5	42.8	85.5	109.9	128.3	403.1	2205.1
59°	12.2	12.2	12.2	30.5	36.6	85.5	109.9	134.4	409.3	2089.0
60°	12.2	12.2	12.2	24.4	36.6	85.5	116.1	140.5	415.4	1954.6
62.5°	6.1	6.1	6.1	24.4	30.5	85.5	128.3	171.0	427.6	1508.7
65°	12.2	12.2	6.1	18.3	30.5	73.3	146.6	183.2	433.7	1172.8
67.5°	12.2	12.2	12.2	24.4	30.5	73.3	152.7	189.4	433.7	928.5
70°	12.2	12.2	12.2	24.4	36.6	73.3	152.7	195.5	427.6	757.4
72.5°	12.2	12.2	12.2	24.4	36.6	67.2	140.5	201.6	409.3	641.4
75°	12.2	12.2	12.2	18.3	30.5	61.1	134.4	219.9	372.6	543.6
77.5°	12.2	12.2	12.2	12.2	24.4	48.9	122.2	244.3	329.8	439.8
80°	18.3	12.2	12.2	12.2	18.3	42.8	116.1	238.2	274.9	287.1
82.5°	18.3	12.2	12.2	6.1	12.2	30.5	91.6	183.2	140.5	128.3
85°	12.2	12.2	12.2	6.1	6.1	18.3	42.8	55.0	42.8	30.5
87.5°	12.2	12.2	12.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

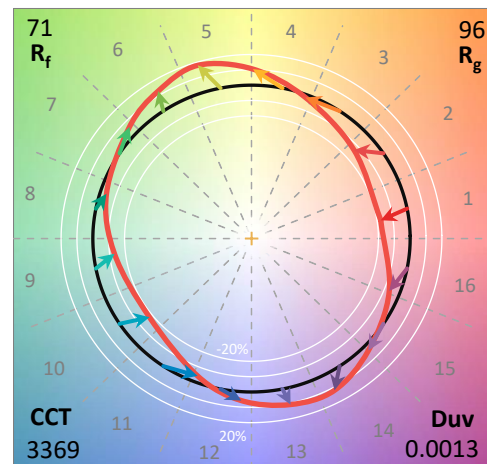
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

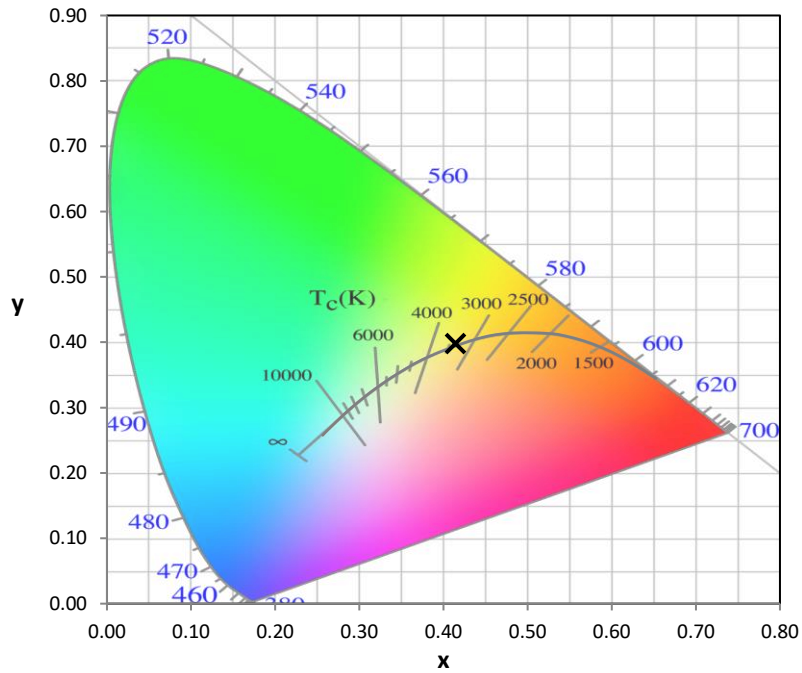
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

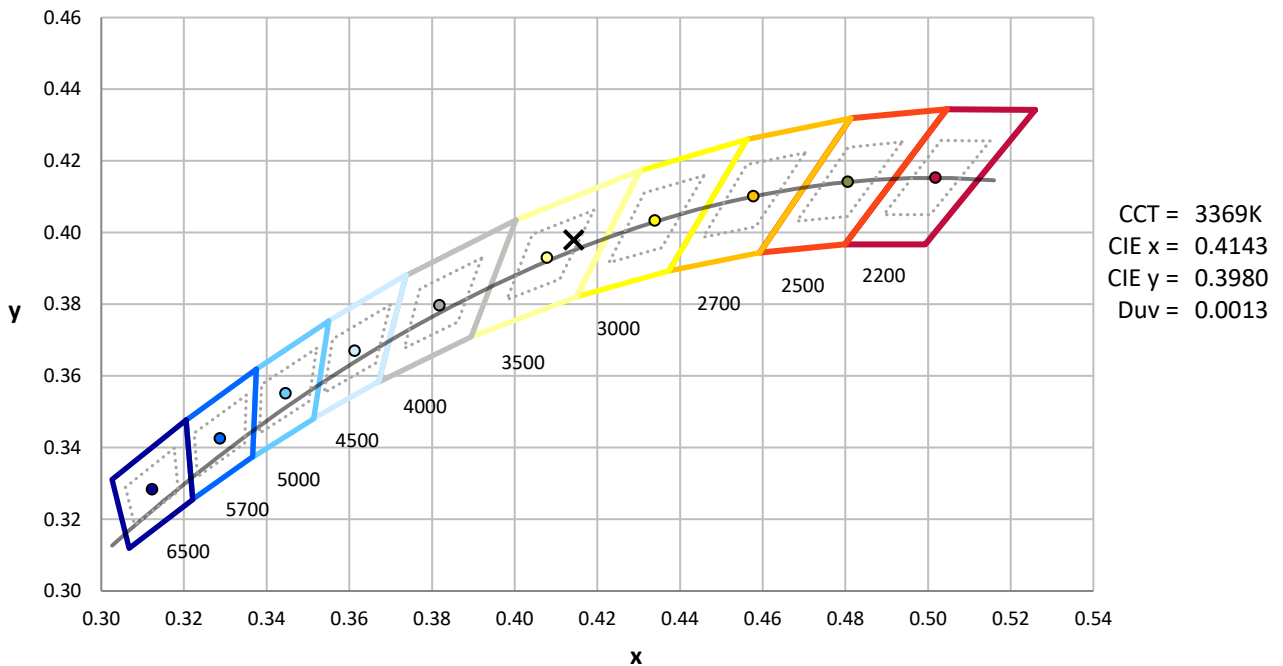
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



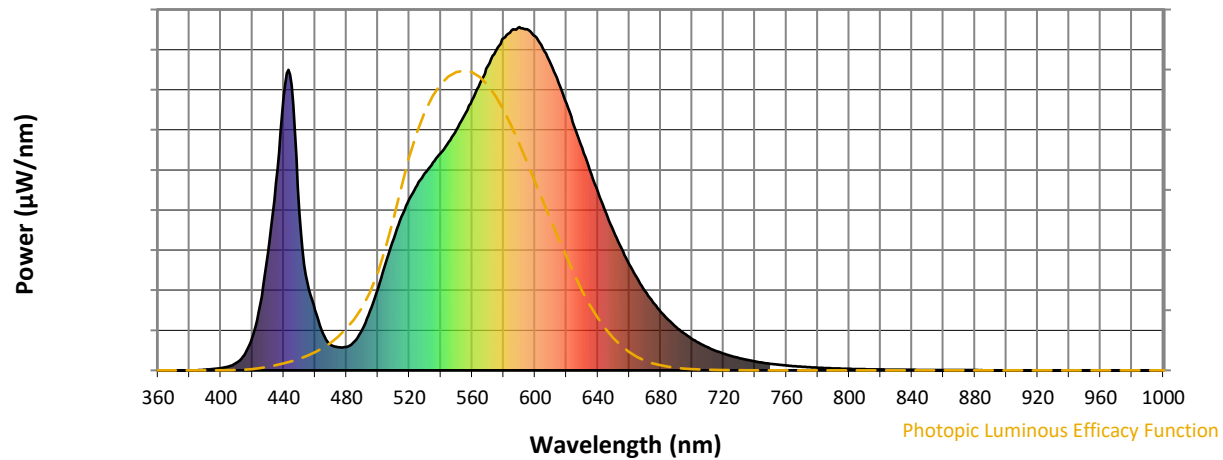
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

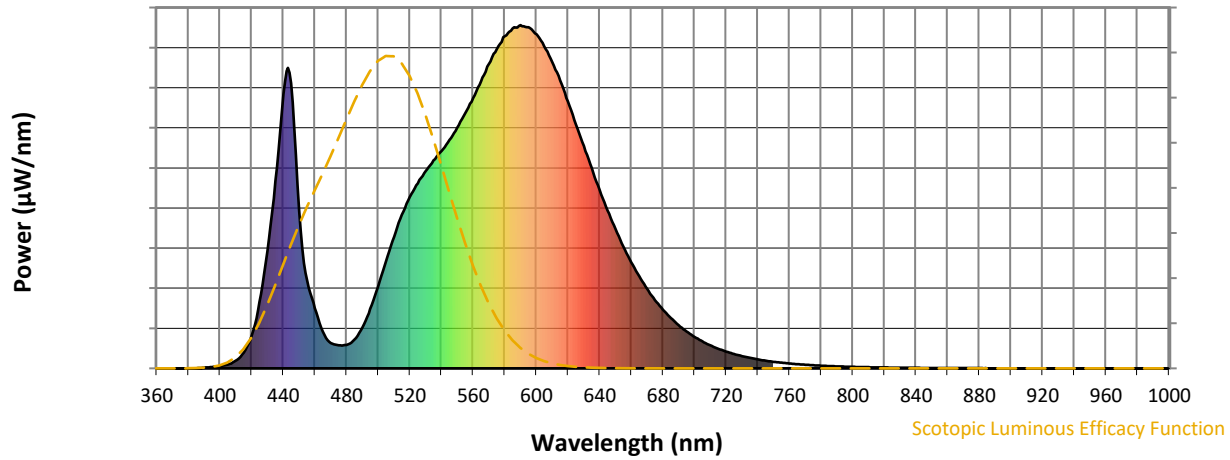


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



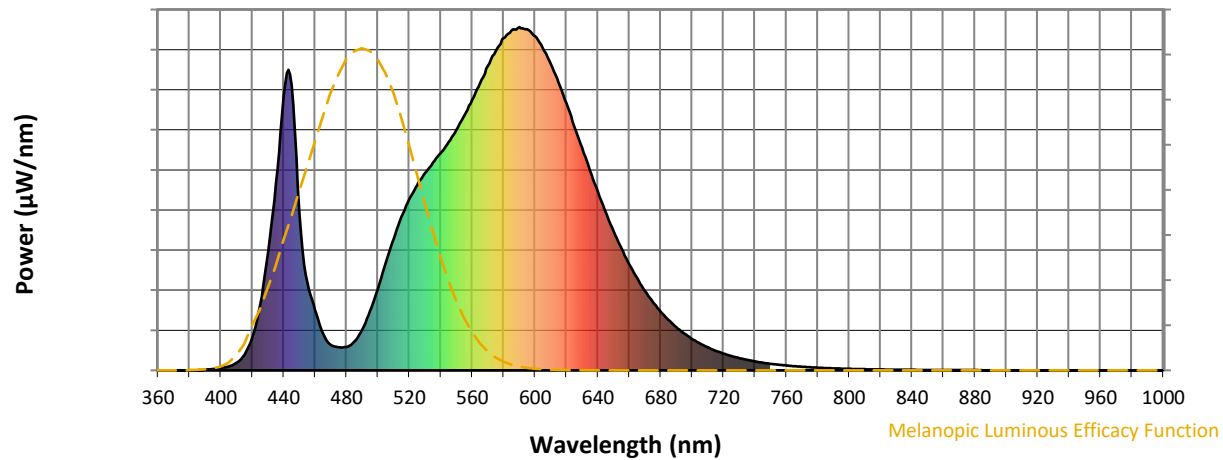
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

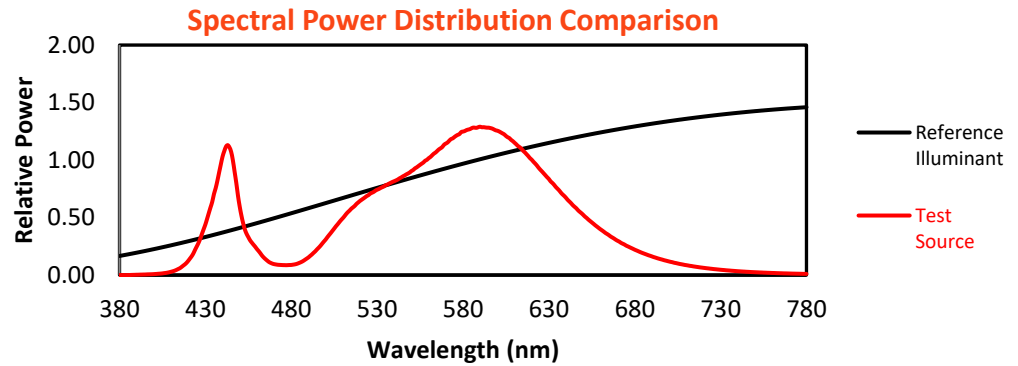
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

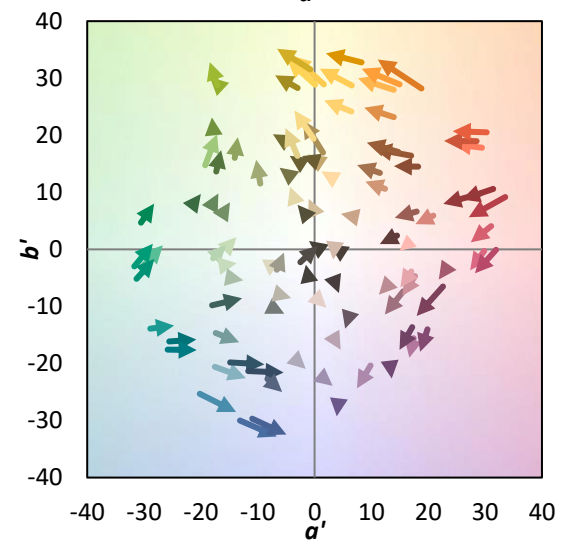
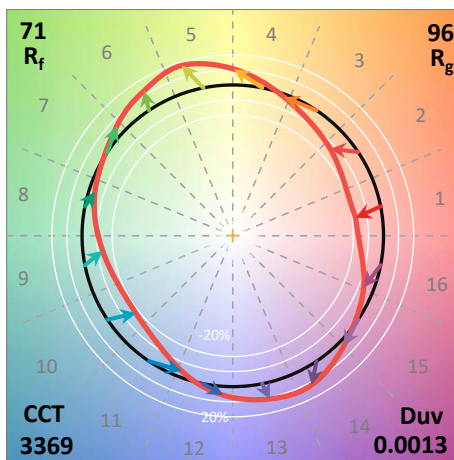
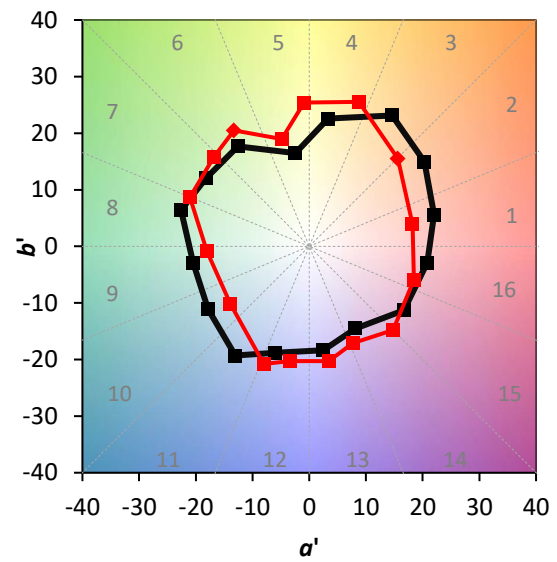
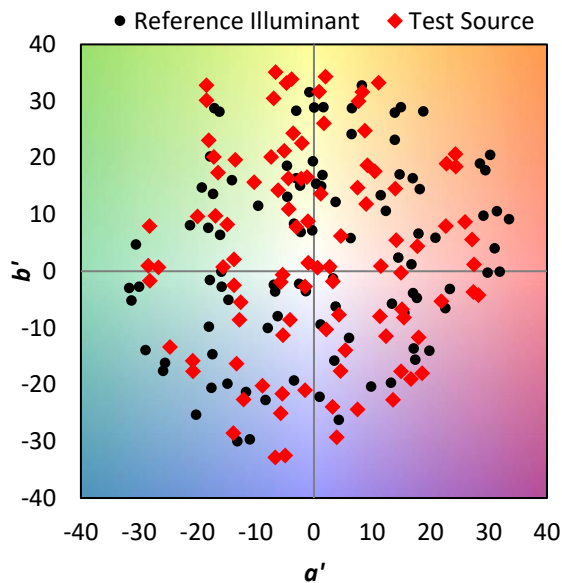
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

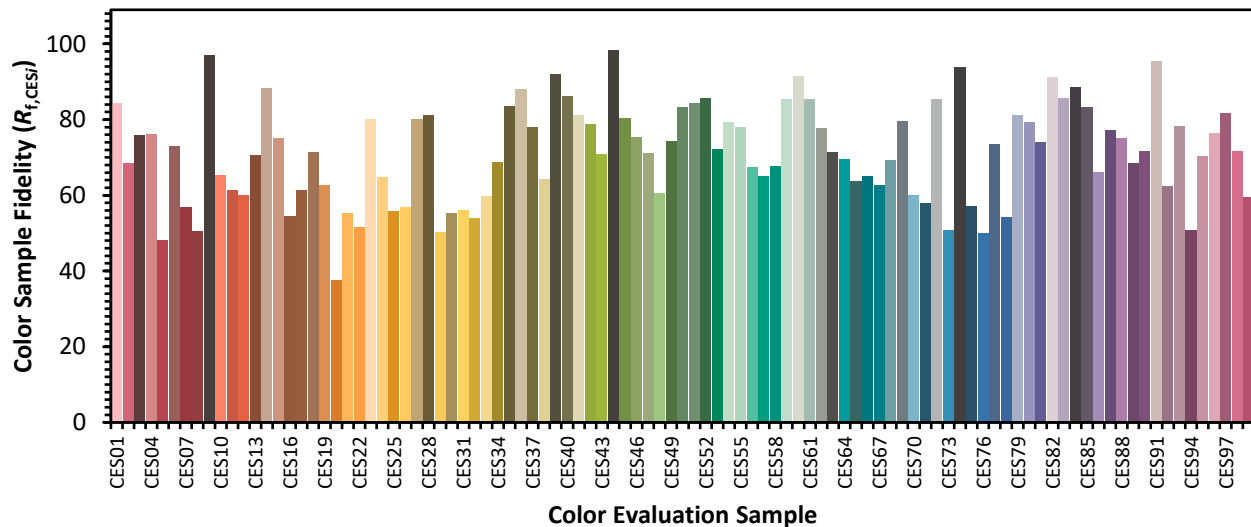


Color Vector Graphics

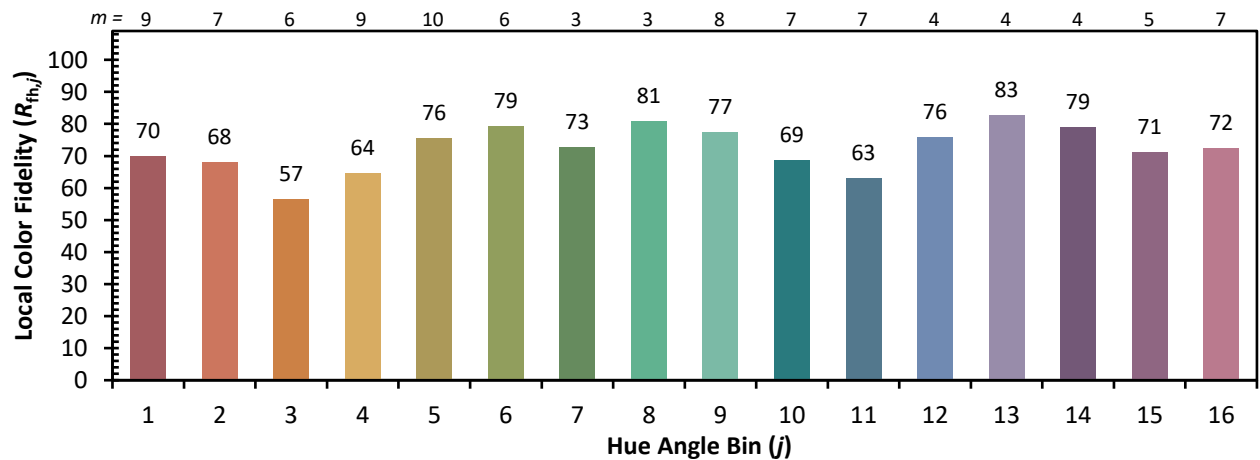
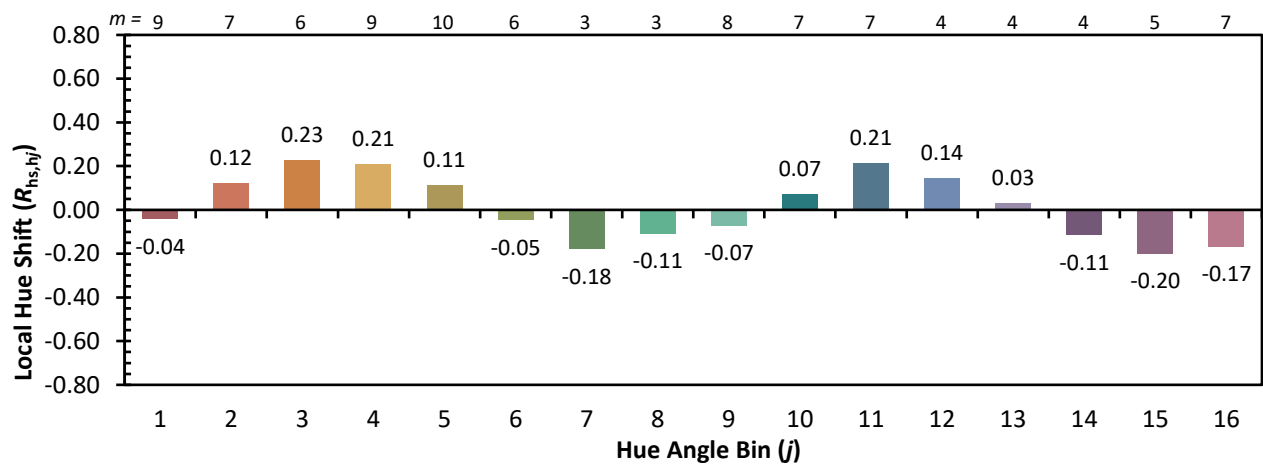
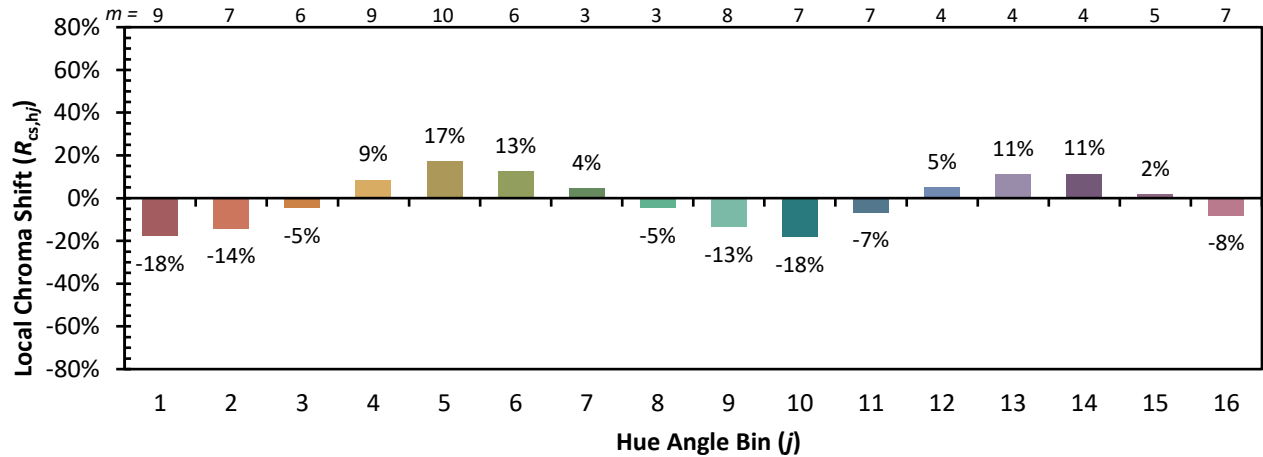


Individual Sample Fidelity Index ($R_{f,i}$)

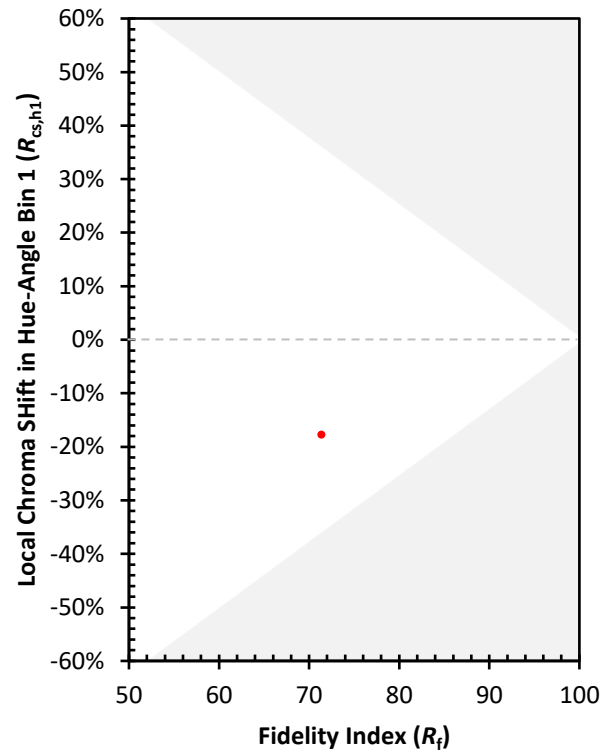
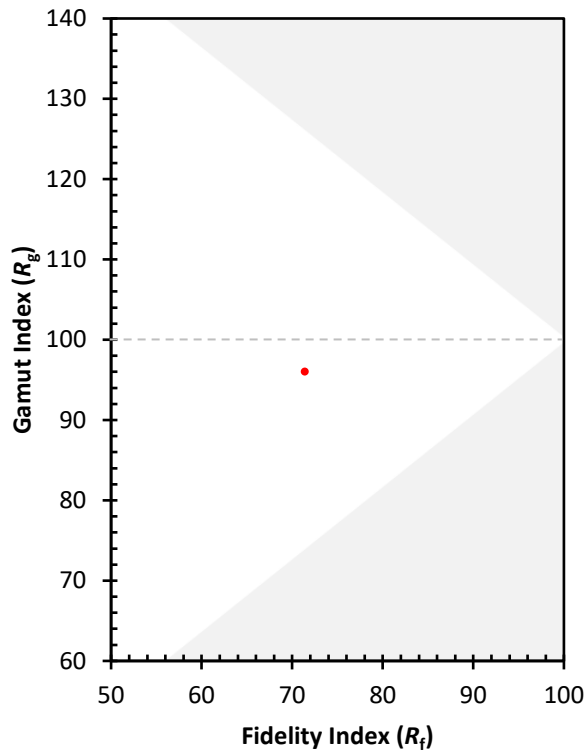
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)